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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,694	07/24/2003	Shinichi Takemura	240705US3	9941
22850 75	90 02/10/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			THOMAS, ALEXANDER S	
	1940 DUKE STREET ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
	•		1772	-
			DATE MAIL CD. 02/10/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	Application No.	Applicant(s)			
Office Action Summary		10/625,694	TAKEMURA ET AL.			
		Examiner	Art Unit			
		Alexander Thomas	1772			
Period fo	 The MAILING DATE of this communication apport Reply 	ears on the cover sheet with the c	orrespondence address			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing end patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
	Responsive to communication(s) filed on					
• —	This action is FINAL . 2b)⊠ This action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposit	ion of Claims					
4)⊠	Claim(s) 1-7 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)□	5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1-7</u> is/are rejected. 7) ☐ Claim(s) is/are objected to.					
·						
•						
8)	Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	on Papers					
9)[The specification is objected to by the Examine	r.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correcti					
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority (ınder 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign ☑ All b) ☐ Some * c) ☐ None of:)-(d) or (f).			
	1. Certified copies of the priority documents		on No			
	2. Certified copies of the priority documents3. Copies of the certified copies of the prior					
	application from the International Bureau	•	a in the reasonal etage			
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	t(s)					
	e of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da				
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		atent Application (PTO-152)			
	r No(s)/Mail Date <u>7/24/03</u> .	6) Other:				

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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: the "Brief Description of the Drawings" in the specification fails to reference all the figures, namely the figures labeled (a) through (d). It is suggested that in the Brief Description of the Drawings the following type of language be used – Figs. 2 (a)-(c) – for each of Figures 2, 3, 6, 7, 8, 10, 11 and 12.

Appropriate correction is required.

Claim Objections

2. Claims 1-7 are objected to because of the following informalities: the use of the abbreviation "FRP" in the claims is improper because the claims are not complete in and of themselves. It is suggested that this term be replaced with its defined meaning from the specification. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Horii et al 5,916,682. See column 1, lines 61-67, column 2, lines 42-51, column 3, lines 26-32 and column 4, lines 6-19.

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Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Horii et al 6. in view of applicant's acknowledged state of the art. The primary reference discloses the invention substantially as claimed, namely a FRP structural member, which may be T-shaped, comprising two types of carbon fibers with different tensile moduluses wherein the carbon fibers are oriented in the longitudinal direction at portions of the article near its surface and wherein some layers of fibers may be oriented at 45 degree angles to the longitudinal direction; see column 1, lines 61-67, column 2, lines 42-51, column 3, lines 26-32 and column 4, lines 6-19. However, the primary reference does not disclose the use of other fibers with the carbon fibers in the amount claimed. The secondary reference discloses that fibers other than carbon fibers are used in FRP because of their low cost; see page 6, lines 23-26. It would have been obvious to one of ordinary skill in the art to replace some of the fibers in the FRP member of the primary reference with non-carbon fibers such as disclosed in the secondary reference in order to lower the cost of the laminate. Adjusting the amount of non-carbon fibers in the article to 5 to 25% to provide the desired cost savings and structural properties is

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within the purview of one of ordinary skill in the art in the absence of unexpected results attributable to the amount of carbon fibers and non-carbon fibers.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Thomas whose telephone number is 571-272-1502. The examiner can normally be reached on 6:30-4:00 M-THUR.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 571-272-1498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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ALEXANDER S. THOMAS PRIMARY EXAMINER

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